DX-D Retrofit

DR UPGRADE SOLUTION

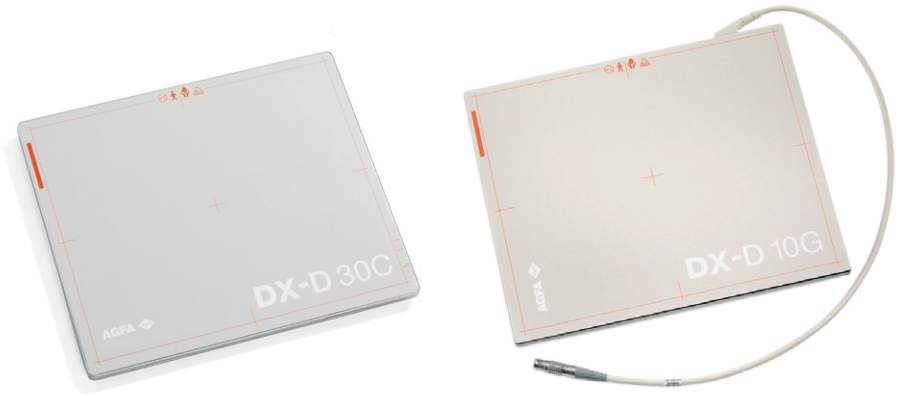
DX-D Retrofit offers an easy and affordable way to go Direct Digital while maximizing the use of existing X-ray equipment.

- All the workflow and image quality benefits of Direct Radiography
- Easy installation: quickly up and running
- Potential dose reduction
- Excellent contrast detail provided by MUSICA
- Connectivity to PACS, HIS/RIS and imagers

An affordable DR solution that maximizes your existing equipment investment

With DX-D Retrofit, healthcare facilities using either analog or Computed Radiography (CR) can upgrade to the benefits of Direct Radiography (DR), without replacing their existing equipment. By maximizing the use of existing equipment while simplifying installation, DX-D Retrofit provides an easy and affordable way to go Direct Digital.

The solution consists of a flat panel detector, a retrofit box and an NX workstation with Agfa's gold standard MUSICA image processing software. The non-invasive, connection-only installation of the DX-D Retrofit solution poses no risk to your X-ray modality, while offering you all the workflow and image quality benefits from a leader in tried and tested DR solutions. You can choose between Cesium Iodide (CsI) and Gadolinium Oxysulphide (GOS) detectors; the DX-D 30C CsI panel offers wireless capability and excellent image quality, while the tethered DX-D 10 uses GOS. Because wireless panels can be shared with other fixed or mobile Agfa DR solutions, additional costs savings can be achieved.



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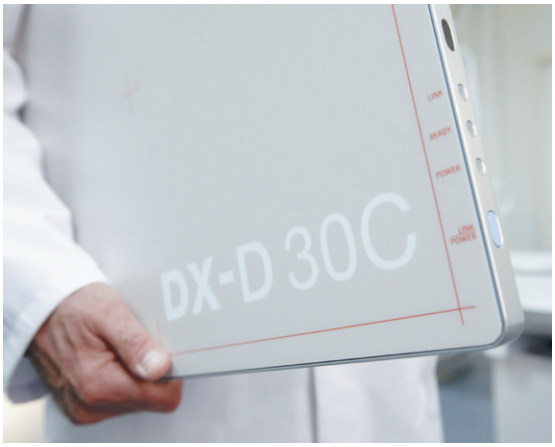

All the workflow and image quality benefits of Direct Radiography

As part of a direct digital solution, DX-D Retrofit improves workflow and speeds up exam time. The correct positioning of the patient and the quality of the image can be verified immediately, and there is no risk of patients' cassettes being mixed up. The number of images is no longer limited by the number of cassettes available, and your images can be sent immediately to the Picture Archiving and Communication System (PACS) or imager in DICOM format. With their 35 x 43 cm image size, the detectors fit into any standard bucky tray and can be removed to provide versatility for all exams.

Easy installation: quickly up and running

Via simple connection to the X-ray unit's console, DX-D Retrofit does not change the existing functionality of your X-Ray unit. In this way, it can safely function in combination with the original equipment.

This non-invasive set-up also allows fast installation: typically within one day. And since very little training on new features is necessary, you can get up and running quickly.

Potential dose reduction

DX-D Retrofit comes with your choice of high quality wireless and tethered detectors: either Cesium Iodide (CsI) or Gadolinium Oxysulphide (GOS). The excellent image quality of CsI provides the potential for significant patient dose reduction*, as well as wireless capability (DX-D 30C panel).

Superb contrast detail provided by MUSICA

Our 'gold standard' MUSICA image processing, which comes with DX-D Retrofit, has been specially adapted and tuned to further enhance the excellent DR image quality. Exam-independent, it provides consistent image quality and high contrast detail.

Connectivity to PACS, HIS/RIS and imagers

DX-D Retrofit provides excellent workflow for general radiography. The NX workstation interface shares the same look and feel of Agfa CR solutions, offering fast previews and low cycle times, as well as connectivity with Radiology Information Systems (RIS), PACS and Hospital Information Systems (HIS).

Services & Support

Agfa offers service agreement solutions tailored to the individual customer's situation. The service agreements are available in Basic, Comfort and Advanced levels, making lifecycle costs predictable.

A worldwide team of some 1000 service professionals is at your disposal to provide support at all phases of your project. As an additional service, they can help you customize your examination tree or link RIS protocol codes, for an even higher return on investment. Furthermore, this team carries out tasks that go well beyond maintenance, including value added services such as super user training, staff training and software upgrades.

Technical Specifications

DETECTORS

DX-D 10 detector

- Detector type: Amorphous Silicon with Charge Well Pixel™ Technology
- Conversion screen: Cesium Iodide (CsI) and Gadolinium Oxysulphide (GOS)
- Effective Image Area: 424 x 353 mm
- Active pixel matrix (H x V): 3052 x 2540 pixels
- Pixel Pitch: 139 µm
- Spacial Resolution: 3.6 lp/mm
- ISO 4090
- Outer dimensions: 460 x 384 x 15 mm (18.1 x 15.1 x 0.6″)
- Weight: 3.9 kg (8.6 lbs)
- Energy Range Standard: 40 – 150 kVp
- A/D conversion: 14 bits
- Data output: gigabit Ethernet

Environmental requirements

Operation

- Shock: high shock tolerance
- Water: water resistant
- Temperature: +10 ~ +35° C (max.)
- Humidity: 10 ~ 90% RH (non condensing)

Storage

- Temperature: -20 ~ +70° C
- Humidity: 10 ~ 90% Rh (non condensing)

Safety

- CE label
- US: UL 60601-1
- Canada: CSA 22.2 No. 601.1-M90

Power

- Power dissipation: 35 watts (max)
- I/O interface box: 100 - 240 VAC, 47 - 63 Hz (up to 9 m away from panel)

DX-D 30C detector

- Detector type: Amorphous Silicon Technology
- Conversion screen: Cesium Iodide (CsI)
- Effective Image Area: 350 x 426 mm
- Active pixel matrix (H x V): 3408 x 2800 pixels
- Pixel Pitch: 125 µm
- Grayscale: 4096 gradations
- Spacial Resolution: 4 lp/mm
- ISO 4090
- Outer dimensions: 460 x 384 x 15 mm (18.1 x 15.1 x 0.6″)
- Weight: 3.4 kg (7.5 lbs) (incl. battery)
- Energy Range Standard: 40 – 150 kVp
- Wireless data transmission from detector to access point: IEEE 802.11n

Environmental requirements

Operation

- Temperature: +15 ~ +30° C
- Humidity: 30 ~ 80% Rh (non condensing)
- Atmospheric pressure: 70 ~ 106 kPa

Storage (unpacked)

- Temperature: -5 ~ +40° C
- Humidity: 30 ~ 85% Rh (non condensing)
- Atmospheric pressure: 70 ~ 106 kPa

Transportation (in package)

- Temperature: -30 ~ +50° C
- Humidity: 10 ~ 95% Rh (non condensing)
- Atmospheric pressure: 70 ~ 106 kPa

Technical Specifications

BATTERY SPECIFICATIONS

- Type: Lithium ion battery
- Operation temperature range: +15 ~ +30° C
- Operational humidity: ≤ 85% Rh
- Rated voltage: 11.1 V DC
- Capacity: Typ. 2490 mAh/Min. 2400 mAh
- Battery performance:
  up to 800 images (@ 15 s cycle, 1 s sleep)
  or 140 images (@ 100 s cycle, 1 s sleep)
  without recharging
- Charging time: approx. 3 hours
  (from empty to full charge)
- Dimensions: 127 x 161 x 7 mm
  (5.00 x 6.34 x 0.28″)
- Weight: 250 g (0.55 lbs)

BATTERY CHARGER

- 2 slots to charge 2 battery packs
  at the same time
- Rated input power: 100-240 V AC, 50/60 Hz,
  0.7-0.37 A, 70 VA-90 VA
- Rated output power: 12.33 V DC/1.2 A
- Dimensions: 105 x 230 x 110 mm
  (4.13 x 9.05 x 4.33″)
- Weight: 780 g (1.72 lbs)
  (excl. cables and cords)

Environmental requirements

Operation

- Temperature: +5 ~ +35° C
- Humidity: 20 ~ 85% Rh

Storage

- Temperature: -30 ~ +60° C
- Humidity: 10 ~ 85% Rh

X-RAY INTERFACE UNIT

- Rated input power: 12 V DC, 0.25 A
  (powered by an AC adapter)
- Dimensions: 195 x 140 x 55 mm
  (7.68 x 5.51 x 2.17″)
- Weight: 1 kg (2.20 lbs)
  (excl. cables and cords)

For more information on Agfa, please visit our website on www.agfa.com ■

* Testing with board-certified radiologists has determined that Cesium Bromide (CR) and Cesium Iodide (DR) Detectors, when used with MUSICA image processing, can provide dose reductions between 50 to 60%, compared to traditional Barium Fluoro Bromide CR systems. Contact Agfa for more details.

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